

## **BCIS 4610: ANALYSIS OF BUSINESS INFORMATION SYSTEMS PROJECT DESCRIPTION**

### **Overview**

The purpose of this project is to provide you with real-life IS development experience. You will work in teams to deliver design documentation and a working prototype of an information system by the end of the semester. You have two options for selecting a system to be designed as a part of your project.

#### Option 1:

Your goal is to identify and address an existing business problem for a real organization (may be a company you are currently working for or a student organization) by designing an IS and creating a working prototype using technology of your choice.

#### Option 2:

Your goal is to design a generic application for a selected functional area. You may use an existing business process classification to define the functional area.

You may decide to design a cross-industry or industry-specific application. If you choose to design an industry specific application, you will have to defend its feasibility in the proposal. Your system should not be company-specific. It should be marketable to a number of companies in your chosen industry. Think of it as developing a module of a generic ERP system.

### **Project Deliverables**

#### Project ID

The project ID will include a high-level formulation of the problem on which you intend to work and its purpose is to ensure that the selected problems are appropriate for the course. The ID will include:

- Title page with the name of the team, names of all team members and the proposed project name
- Problem identification (1/2 page) - briefly describe the company or functional area you will be working on and the type of system you will be developing
- Intended information sources – briefly describe how you intend to gain information about the company user requirements or the functional area (e.g. “one of the team members works for the company” or “his mother owns the business”, or “we intend to interview members of the student organization”, or “one of the team members has 5 years of experience in procurement”, etc.)
- Team – include names and e-mail addresses of all team members.

#### Project Proposal

The project proposal is intended to convince the sponsor of your project about the feasibility of the project in general and your approach to it. Your proposal should include, at the minimum:

- Title page and the table of contents
- Executive summary
- Problem description including your understanding of the functional area

- The goal and scope of the project
- Your approach to the project
- Team composition and relevant experiences
- Project schedule (prepared in MS Project or other similar software, pasted into a Word or PowerPoint file)
- A table with hourly rates for all team members
- Project budget (prepared in MS Excel or MS Project and pasted into Word or PowerPoint file)

### Interim Report

The interim report will contain a description of user requirements for the proposed system and a conceptual design for your system, including:

- Title page and table of contents
- Executive summary
- Discussion of the problem
- Description of system requirements with references to the appendix
- Verbal discussion of the proposed system with references to the appendix
- Definition of work for Stage 2 (forms, reports, plan)
- Appendix (most important part)
  - Level 0 and Level 1 DFDs
  - Business Process Maps
  - ERD
  - Crud Matrix
  - Functional Hierarchy Diagram
  - Entity Model Reference Report
  - Function Definition Report
  - Dataflow and data store definition reports

### Final Report

- Title page and table of contents
- Executive summary
- Brief discussion of the system (from Interim report)
- Relational data model (printed from Oracle using design transformer, then design editor) for the selected entities and relationships between them
- Table definitions (CREATE TABLE statements, DESCRIBE statements and SELECT \* statements).
- Interface design (overall approach, Dialog diagram or equivalent, generic form designs with explanations)
- Prototype in Oracle, unless otherwise approved by the instructor (you will need to include description and screen-shots in your report), including:
  - At 3-4 forms (at least one list of values) corresponding to the selected part of the system.
  - At least 3 reports.
  - At least 3 ad hoc queries.
  - At least 5 procedures/triggers/functions (can be a part of the form), but you need to submit a separate sheet with code.
- A user manual for the selected part of the system (may be concise, but professionally done).

### Team Presentation

Your team presentation is designed for you to present your work to your team members in the most entertaining, yet informative way.

- The presentation should last 20-25 min
- The presentation should cover
  - Functional area or company overview
  - System overview
  - Process and conceptual data models
  - Prototype description
  - Prototype demo
- Submit printout of your slides before the presentation

### Project timeline

Due dates for all the deliverables are indicated in the syllabus.